Functional Block diagram

Warning\_LED ()

If speed input 0x00 is received.

Speed

EEPROM\_Write()

Writes the received speed value.

Returns Value.

Value and Address

Transmit\_speed ()

EEPROM Write function is called here. If CC\_ECU is set it sends the speed “0x85” argument to write\_CC\_Speed (), else received speed is given as argument

Returns the received speed.

Returns the received speed.

can\_Engine\_speed\_read ()

Receives the speed input “Engine Msg”

write\_CC\_Status (value, ID)

Transmits the state of the CC ECU with given ID.

State\_Value (0 or 1) and ID

Interrupt Indication ()

Turning on indication LED

Can\_init()

Clearing Tristate bits of CAN TX and RX, enabling peripheral interrupts, setting priority to interrupts, setting baud rate.

write\_CC\_Speed (), (Formatted\_speed)

Transmits the speed value that is given as arguments.

System\_init ()

Enabling GIE and PEIE.

Setting TRIS and PORT bits.

Main Function ()

System\_init ()

Can\_init ()

can\_Engine\_speed\_read ()

warning\_led () Transmit speed ()